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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/006,896	12/10/2001	Woong-Kwon Kim	8733.066.20	3421	
30827	7590 10/25/2002				
	LONG & ALDRIDO	GE LLP	EXAMINER		
1900 K STRI WASHINGT	EET, NW ON, DC 20006		TON, MINH TOAN T		
			ART UNIT	PAPER NUMBER	
			2871		
			DATE MAILED: 10/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

			Mu
	Application No.	Applicant(s)	<i>V</i> • •
	10/006,896	KIM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Toan Ton	2871	
The MAILING DATE of this communication app Period for Reply	lears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a y within the statutory minimum of thin will apply and will expire SIX (6) MOI to cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).	on.
1) Responsive to communication(s) filed on 10 c	October 2002 .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
 Since this application is in condition for allowed closed in accordance with the practice under Disposition of Claims 			s is
4) Claim(s) 13-28 is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>13-28</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine		tha Francisca	
10) The drawing(s) filed on is/are: a) acception to the	•		
Applicant may not request that any objection to the 11) The proposed drawing correction filed on	-,,		
If approved, corrected drawings are required in rep	- , , , ,	alsapproved by the Examiner.	
12) The oath or declaration is objected to by the Ex	-		
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	,		
1. ☐ Certified copies of the priority document:	s have been received.		
2. Certified copies of the priority document	s have been received in A	Application No. <u>09/199650</u> .	
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	-	
14) ☐ Acknowledgment is made of a claim for domesti	•		tion).
a) ☐ The translation of the foreign language pro	ovisional application has b	een received.	•
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	4) Interview 5) Notice of 6) Other:	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	
DAME IT I I OF			

Art Unit: 2871

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 13-17, 20-24, 26-27 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 6344884. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims in the application are broader than the patented claims.

Art Unit: 2871

3. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re*

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

- 4. Claims 18-19, 28 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of prior U.S. Patent No. 6344884. This is a double patenting rejection.
- 5. Claim 25 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 9 of prior U.S. Patent No. 6344884. This is a double patenting rejection.
- * Claims 20 and 26 comprise obvious variations (before vs. after, i.e., not patentably distinct) to claims 18-19, 28 and 25, respectively.

Art Unit: 2871

Claim Rejections - 35 U.S.C. § 112

6. Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

On line 2, "the organic layer" lacks antecedent basis. For examination purposes, it is assumed that claim 19 depends from claim 18 (instead of 13).

Claim Rejections - 35 U.S.C. § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 13-15, 18, 21-24, 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art (Figures 1a, 1b) in view of Yamaji et al (US 5621701, IDS).

Applicant's Prior Art disclose all claimed method steps except for a plasma treatment containing hydrogen.

Art Unit: 2871

Yamaji et al disclose teach that a hydrogen plasma treatment to the insulating films 20, 31 yields several advantages such as improving water permeation blocking performance, preventing contact holes from having high aspect ratio (see Figures 6, 10 and col. 13, line 60 to col. 14, line 7). Therefore it would have been obvious to one of ordinary skill in the art to employ a hydrogen plasma treatment to the insulating film(s) for achieving advantages such as improving water

With respect to the particular material of each layer, Applicant's Prior Art (the main reference) discloses in the background of the invention.

permeation blocking performance, preventing contact holes from having high aspect ratio.

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. TON whose telephone number is (703) 305-3489. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

October 15, 2002

TÖANTON PRIMARY EXAMINER